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Parasites.—Helminths of waterfowl, **Ablasov** ; Legmites, **Bleitz** (**2**) ; Acarina and Mallophaga as systematic criterion, **Dubinin** ; Bird lice, **Eichler** ; **Eichler & Mrosek** ; Game-birds in S. Kirghizia, **Gagarin, Ablasov & Chibichenko** ; Helminths of Daurian Partridge, **Gvozdev** ; Helminths of game-birds in Kazakhstan, **Gvozdev** (**2**) ; Helminths of game-birds and poultry, **Gvozdev** (**1**) ; **Hartwich** ; Ticks carried by migrating birds, **Hoogstraal & Kaiser** ; Mites and Fleas in nests, **Ioffe** ; Mites in Common Eiders' nests, **Kulachkova** ; Fleas in Common Eiders' nests, **Kulachkova** (**1**) ; Endo- and ectoparasites of Eider, **Kulachkova** (**2**) ; *Prosthogonimus*, **Panin** ; Gigantobilharziasis, **Poldvere** ; Helminths of swans, **Romanova & Ryzhikov** ; Trematoda of fish-eating birds, **Ablasov & Iksanov** ; Tapeworms, **Abuladze** ; Acanthocephala, **Belopol'skaya** ; Schistosomatidae of Anseriformes, **Bykhovskays-Pavlovskaya & Ryzhikov** ; Helminths of Eagle Owl, **Chibichenko** ; Helminths of waders, **Ginetsinskaya & Naumov** ; Trematoda of Buff-Backed Heron, **Kasimov, Vavilova & Feizullaev** ; Trematoda of herons, **Leonov** ; Changes of helminth fauna, **Makarchenko** ; Helminths of herons and divers on Rybinsk water reservoir, **Shigin** ; Cestoda, **Spasskaya** ; In viscera of ducks, **Soulsby** ; Trematoda, **Sultanov** ; Ticks, **Ushakova** ; *Atoxoplasma* in Passerine birds, **Zasukhin, Vasina & Levitanskaya.**

Enemies and Defence.—Hawk robs owl, **Berger,** D. D. ; Birds and men, **Bourke** ; Robbing of nests by Ermine, **Karpovich & Sapetina** ; Sandpiper escape diving, **Martin & Atkeson** ; Shrike v. Hoopoe, **Olivier** ; Small birds' enemies, **Ruthke** ; Kite v. Cat, **Schneider,** L.

Pathology and Disease.—Partridges affected by industrial contamination, **Ash** ; Foot-pox, **Bleitz** ; Birds and some human diseases, **Boyd,** E. M. ; Blackhead disease in falcons, **Giavarini** ; Disease in a colony of gulls, **Jennings & Soulsby** ; Equine encephalomyelitis in birds, **Jungherr** ; Treatment of sick birds, **Lake** ; Sea birds as vectors of trichinosis, **Ozeretskovskaya & Uspenski** ; Arthropod-borne viruses of Tonga-

land, **Paterson,** H. E. **& others** ; Avian botulism, **Tinker** ; Leg growths on British birds, **Townsend.**

Mortality.—Slender-billed Gull mass death, **Bakeev, Skalon & Chugunov** ; Attraction of television towers, **Brewer & Ellis, Cochran & Graber** ; Effect of severe winters in zoo, **Dement'iev, Sudilovskaya & Sosnovski** ; Migration risks, **Devlin & Wykoff** ; Within the species, **Geyr von Schweppenburg** (**1**) ; Mass death at spring, **Korelov** ; At television towers, **Laskey** ; Die-off of Shags in New Zealand, **Miles** ; Hummingbird captured by Praying Mantis, **Murray** (**1**) ; From decomposed body of nestling in nest, **Palmer** ; From snakes and lizards, **Pitman** ; Emperor Penguin, **Prévost** (**2**) ; Oil pollution, **Priklonskĭ** (**3**) ; Death of ducks in fishing nets, **Priklonskĭ** (**4**) ; Tornado effect on birds, **Rossmann,** F. O. ; Problem of young birds of prey, **Wendland** (**2**).

III.—DISTRIBUTION

(*a*) GEOGRAPHICAL

PALAEARCTIC REGION

British Isles.—Alexander.

England.—Northumberland and Durham, **Grey** ; Westmoreland, **Blezard** ; Yorkshire, **Chislett**, **Chislett & Ainsworth** ; Leeds, **Lee** ; Liverpool, **Tyrrell** ; Northamptonshire, **Felton** ; Birmingham area, **Blake,** A. R. M. ; Lincolnshire, **Cornwallis & Smith** ; Norfolk, **Anon., Seago** ; Suffolk, **Cobb** ; Cambridge, **Bruhn & Vine** ; Berkshire, **Field, Veysey** ; Hertfordshire, **Lloyd-Evans, Magee** ; London, **Hillman, Holmes, Homes, Jones, Sage** ; Hampshire, **Cohen** ; **Chadder** ; Wiltshire, **Barnes & others** ; Bristol, **Brooke & others** ; Dorset, **Anon., Bull** ; Devon, **Ware.**

Wales.—Cardiff, **Salmon** ; West Wales, **Barbier, Hartman,** H. J.

Scotland.—Baxter ; Berwickshire, **Home & others** ; Clyde, **Robertson,** T. ; Tiree and Coll, **Boyd,** J. M. ; May I., **Eggeling.**

Ireland.—Vietinghoff-Riesch (**1**).

Smaller British Islands.—Fair I., **Davis,** P. E., **Edfelt** ; Farne Is., **Hickling, Rollin** (**1**) ; Lundy I., **Harvey, Whitaker.**

Channel Islands.—Jersey, **Graham, Johnson & Hook.**

France.—Aisne, **Boutinot** ; Anjou, **Nayaud** (**2**) ; Aube, **Cuisin** ; Auverne, **Lucas** ; Landes, **Petit** ; Loir-et-cher, **Reboussin** ; Seine-et-Oise, **Etchécopar** ; Basses Pyrénées, **Brosse** ; Southern France, **Ringleben.**

Belgium. — Arnhem, Catthoor, Hutten, Janssen, Lippens ; Tervuren Park, **Bequaert.**

Netherlands. — Anon., Blaak, Bruijns, Vries, Lagenhoff, Sollie, Hellebrekers, Kate, Koridon, Taapken, Webbe ; Vlieland, **Blondel** ; Zeeland, **Rappe & Ruwet** (**1**).

Denmark.—Adelholt, Hansen, L., **Løppenthin.**

Sweden.—Andersen, Holmberg, Sandberg, Floch & Schutz, Jenning, Mathiasson, Wahlstedt ; Falsterbo, **Lennerstedt** (**1**) ; Lapland, **Curry-Lindahl** (**2**).

Norway.—Barth, Bernhoft-Osa, Haftorn, Holgersen, Hogstad.

Finland.—Casen, Fritzén & Tenovuo, Hilden, Lappi, Merikallio, Tenovuo.

U.S.S.R. General Works.—Belopolski, Blagosklonov, Dolbik, Mikheev, Promptov, Portenko, Omelko, Shnitnikov, Uspenskü, Yanushevich, Kiriraliev, Burchak-Abramovich (**1**), **Dementiev, Gladkov, Gladkov** (**1**).

U.S.S.R., European Territory.—Franz Joseph archipelago, **Rutilevskĭ** (**1**) ; Barents Sea, **Belopol'ski** (**1**), **Gerasimova** ; Vaigach Isl., **Uspenskĭ** (**2**) ; White Sea, **Bianchi, Kuzyakin & Lenovich, Spangenberg & Leonovich** (**1**) ; Karelia, **Neĭfel'dt** ; Leningrad, **Pokrovskaya** ; Pskov, **Meshkov** ; Estonia, **Kumari,** A., **Kumari,** E., **Kumari,** E. (**1**), **Ling, Niklus, Onno, Piiper, Timmerman, Toom, Vilbaste, Veroman & Pärg** ; Lithuania, **Ivanauskas, Zubaricius** ; Pechora river, **Teplova** (**1**) ; Ryazan, **Ptushenko** ; Balashov, **Kadochnikov** ; Poltava, **Gavrilenko** ; Ukraine, **Kistyakyvskĭ, Kustayakyvskĭ** (**1**) ; Crimea, **Berenbeĭm & Perov, Gizenko.**

U.S.S.R. Siberia.—Arctic, **Rutilevskĭ & Uspenskĭ, Uspenskĭ,** S. ;

West Siberia, **Guibet, Johansen** ; Yamal Peninsula, **Panteleev** ; New Siberian Archipelago, **Uspenskiĭ,** S., **Rutilevskiĭ** (2) ; Yakutia, **Gladkov** (1), Vorobiev ; Yenissei valley, **Syroechkovskiĭ & Rogacheva** (1), **Krutovskaya** ; Transbaikal, **Bakutin, Izmailov, Malyshev** ; Kamchatka, **Belopolski & Rogova.**

U.S.S.R. Caucasus.—Azerbaijan, **Adol'f & others, Gambarov & Gazanchan** ; Georgia, **Chinchaladze.**

U.S.S.R. Middle Asia=Turkestan and Kazakhstan.—Caspian Sea, **Zaletaev** ; Transcaspian, **Zaletaev** (1) ; Turkmenia, **Karaev, Krivisheev, Rustamov & Sukhinin, Tashliev** ; Uzbekistan, **Zheleznyakov & Kolesnikov** ; Kirghizia, **Ablasov, Gagarin & Chicichenko, Kuznetsov, Yanushevich** ; Tadzhikistan, **Akhmedov** (1) ; Pamirs, **Abdusalyamov, Abdusalyamov** (1), **Potapov** ; Tian-Shan, **Kydyraliev, Stapanyan** (1) ; Kazakhstan, **Dolgushin**

Poland.—Riabinin, Sokolowski.

Switzerland.—Corti, Géroudet, Manuel, F., **Willi & Leuthold, Warnecke.**

Germany. — Beer, Grummt, Kalbe, Piechocki (2), **Frieling, Meise** (3) ; Bavaria, **Bell, Dietz, Lohmann, Rosenberger, Wüst, Zink** ; Frankfurt, **Klaas** ; Göttinger, **Oelke** ; Düsseldorf, **Weber** ; Holstein, **Hagen** ; Hanover, **Schoennagel** ; Hiddensee, **Hüchler** ; Rhineland, **Neubaur** ; Westphalia, **Tiemann** ; Leipzig, **Grossler & others**; Mark Brandenburg, **Steinbacher,** G. (1) ; Magdeburg, **Richter,** D. ; East Prussia, **Schüz.**

Austria.—Höpflinger, Kepka, Klimsch, Mayer & Merwald, Schönbeck, Schweiger ; South Tyrol, **Epping.**

Hungary.—Dudich, Horvath, Szekessy.

Czecho-Slovakia.—Cerny, Matejka, Hajek, Hudec, Kadlec, Matoušek, Mósansky & Sladek, Randik, Prazny, Turček (1).

Yugoslavia.—Bernhauer, Géroudet (2), **Hainard, Krpan, Rucner** ; Vojvodina, **Marčetic.**

Rumania.—Steinbacher, J.; Black Sea, **Kumerloeve** (13).

Italy.—Bajnotti, Di Carlo, Favero, Giol, Moltoni, Tornielli, Toschi ; Spezia, **Trettau** ; Sicily, **Krampitz.**

Greece.—Peus, Rathmayer & Remold.

Spain.—Abs, Bernis & others, Bruhn & Jeffrey, Mountfort, Pérez & others ; Coto Donana, **Mountford, Peterson** ; Sierra de Grazalema, **Rowan & Bernis** ; Sierra Nevada, **Niethammer** (3).

Balearic Islands.—Bernis, Diez & Tato, Moreau, Westernhagen, Tato Cumming, Tato Cumming & Nicholson Durand, Granada, Palau, Preston, D. A.

Mediterranean.—Sardinia, **Bezzel, Corti** (2) ; Cyprus, **Bannerman.**

Near East.—Anatolia, **Ballance** ; Turkey, **Kumerloeve** (14) ; Iraq, **Allouse, Makatsch** (1), **Norris,** A. J. ; Iran, **Read** ; Persia, **Berlioz, Norton, Schüz** (1).

China.—Southern Yunnan, **Cheng & others** ; Hong-Kong, **Moussage.**

North Africa.—Morocco, **Brosset, Brosset** (1), **Contant, Contant & Pasteur** ; Tunisia, **Blanchet, Castan, Deleuil, LeFaucheuz.**

Atlantic Islands.—Canary Islands, **Hooker, Hue & Etchécopar, Etchécopar & Hüe** ; Faroe Is., **Pedersen.**

AUSTRALIAN REGION and POLYNESIA

Australian Commonwealth.—**Carrick** ; Illawarra, New South Wales, **Sefton** (2) ; Dumbleyung, **Serventy,** V. ; Western Australia, **Sedgwick, Lindgren** ; Victoria, **Wakefield** (2) ; Portland, Victoria, **Officer** ; Gippsland, Victoria, **Wakefield** & (1) ; South Australia, **Glover & Shodde** ; Tasmania, **Cashion.**

New Zealand.—Creswell, Dawson, Falla (1), **Sibson.**

ETHIOPIAN REGION

West Africa.—Mayer-Dupen ; Dahomey, **Brunel** ; Senegal, **Morel** ; Ghana, **Lamm & Horwood** ; Togo-

land, **Douaud** ; Sao Tomé, **Frade** ; Nigeria, **Serle** ; French Equatorial Africa, **Blancou** ; Tibesti, Sahara, **Tuck,** R. ; Angola, **Heinrich** & (**2**), **Meise** ; Gabon, **Malbrant & Maclatchy** ; Belgian Congo, **Schouteden** (**1**).

South Africa.—Berlioz (**1**), **De Villiers** ; South West Africa, **Hoesch**; Free State, **Liverside** (**1**) ; Cape Province, **Paterson,** J. M. ; Fort Beaufort, Cape Province, **Taylor,** J. S. ; Oudtshoorn, **Pocock & Winterbottom** ; Wonderboom Reserve, **Roberts.**

Atlantic Islands.—Tristan da Cunha, **Winterbottom** (**4**).

Central and East Africa.—Ethiopia, **Niethammer** (**1**) ; British Somaliland, **Kreuger** ; Bazaruto Island, **Eyssen** ; Kenya, **Sheppard, Van Someren, Williams,** J. G. ; Tanganyika, **Fuggles-Couchman** ; Mozambique, **Anon., Keve** (**4**) ; Northern Rhodesia, **Benson** & (**1**) &(**2**), **Benson & Pitman.**

ORIENTAL REGION

Indian Peninsula and Ceylon.—Bengal, **Daniel, Inglis** ; Nepal, **Proud.**

Malaysia.—Malacca, **Batchelor** ; Perak, **Wells** ; Selangor, **Cant.**

Indonesia.—Bangka I., **Schauensee** ; Komodo, **Pfeffer** ; Polillo, Philippine Is., **Manuel,** R. G.

Pacific Islands.—Christmas I., **Holt,** J. G. V. ; Rennell I., British Solomons, **Bradley & Wolff** ; Hawaii, **Kenyon & Rice** (**1**) ; New Guinea, **Brongersma** ; Borneo, **Medway** (**1**), **Various Hands.**

NEOTROPICAL REGION

Central America. — Panama, **Blake,** E. R. ; Bulf of Panama, **Robins** ; El Salvador, **Steinbacher,** J. (**5**).

West Indies.—Trinidad and Tobago, **Junge & Mees** ; Islas las Aves, **Werf, Zaneveld & Voous.**

South America.—Pascua I., **Wilhelm** ; Venezuela, **Aveledo, Buisonje & others, Phelps & Phelps, Yépez** ; I. de Patos, Venezuela, **Phelps & Phelps** ; Colombia, **Lehmann,** V., F. C., **Olivares, Borrero** & **Hernández** ; Ecuador, **Marchant** ; Peru, **Dorst** (**1**), **Traylor** (**1**) ; Chile, **Behn, Johnson & Millie, Goodall & others, Johnson,** A. W. ; Brazil, **Mitchell,** M. H., **Novaes** ; Argentina, **Olrog.**

NEARCTIC REGION
including MEXICO

Mexico.—Miller, A. H. **& others** ; Guerrero, **Dixon & Davis** ; Puebla, **Warner & Beer** ; Zacatecas, **Webster** (**2**).

North America.—Udvardy.

U.S.A. Pacific Coast and Rocky Mts.—California, **Giles, Giles & Crabb, Monson, Sams, Woody, Yocom** ; Colorado, **Hyde** ; Utah, **Behle, Behle & Ghiselin, Killpack & Hayward.**

U.S.A. South Western.—Arizona, **George,** W., **Levy, Simpson & Werner, Tanner & Hardy.**

U.S.A. North Central.—North Dakota, **Summers, Cassel** ; Illinois, **Bennett, Parmalee** & (**1**) ; Ohio, **Cox,** G. W. (**1**), **Williams,** A. B. ; Minnesota, **Allin, Beer, Finseth Lupient** ; Michigan, **Batts, Burns, Brocke, Kenaga, Pettingill, Van Deusen** ; Wisconsin, **Dillon** ; Kansas, **Andrews & Stephens, Clarke, Breukelman & Andrews, Fitch, Ford, Mosby & Lynn, Robinson,** T. S., **Tordoff.**

U.S.A. South Eastern.—Alabama, **Imhof** ; Tennessee, **Herndon, Howell & Monroe, Weise.**

U.S.A. North Eastern.—New York, **Benton, Rising** ; Maryland, **Bond,** G. M.

Atlantic Islands.—Bermuda, **Wingate.**

Canada.—Nova Scotia, **Godfrey,** W. E. ; Newfoundland, **Peters & Hewitt** ; Quebec, **Auger** ; Ontario, **Baillie, Denis** ; British Columbia, **Hardy,** G. A., **Pearse** ; Mackenzie Delta, N.W.T., **Stevens & Höhn.**

Alaska.—Bee, Kessel & Cade, Nelson ; Middleton I., **Rausch.**

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Atlantic Ocean.—Browne, Dorst (**2**), **Phillips,** W. W. A.

Black Sea.—**Horváth.**

Arctic Ocean.—**Apollonio** ; Spitzbergen, **Ehrström.**

Indian Ocean.—Maldive Is., **Phillips & Sims** (**1**) ; Seychelles, **Ridley.**

North Pacific.—**Hamilton,** W. J. III.

Antarctic. Falla ; Macquarie I., **Carrick** (**1**), **Keith & Hines.**

(*b*) GEOLOGICAL

Pleistocene.—California, **Howard,** H. ; Kansas, **Stettenheim.**

Pliocene.—Oregon, **Brodkorb** (**2**) ; San Diego, **Miller & Bowman.**

Miocene.—Southern California, **Howard,** H. (**2**).

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The classification of Wetmore, Mayr and Greenway is here followed as regards orders and families.

References to the "Titles" is by the name(s) of the Author(s) printed in clarendon type.

Note: Where "year" follows Author's name it refers to Record of that year.

†ARCHAEOPTERYGIFORMES

[No record]

SPHENISCIFORMES

Systematic review, **Verheyen** (**2**).

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A radiocarbon date for colony at Cape Hallett, **Harrington & McKellar** ; Australian fossil penguins, **Simpson.**

Aptenodytes forsteri taxidermic note. **Ichikawa** ; incubation observations, **Prévost** ; study of mortality ratio, **Prévost** (**2**) ; rookeries discovered, **Willing** (**1**) ; feeding habits, **Willing.**

Eudyptula minor nesting study, **Warham** (**1**).

Megadyptes antipodes incubation and body temperatures, **Farner.**

Pygoscelis adeliae general biology, **Sladen.**

Spheniscus humboldtii nasal salt secretion, **Schmidt-Nielsen & Sladen.**

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†Fossil ostriches in Transbaikal, **Ivan'iev.**

Struthio ontogeny of cranium, **Webb**; *S. camelus* "anting" in smoke, **Anon.** ; breeding biology in captivity, **Schneider,** K. M. ; *S. c. syriacus* archaeological note, **Field,** H.

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[No record]

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†Dinornithidae

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Apteryx australis German note, **Steinbacher,** I. (**1**).

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Observations in captivity, **Schneider,** K. M. (**2**) ; Evolution of wings, **Storer.**

Colymbus arcticus economic importance in Rumania, **Papadopol.**

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Aechmophorus occidentalis dry-land nesting colony, **Nero, Lahrman & Bard.**

†*Colymbus parvus* **sp. nov.** p. 6, **Miller & Bowman.**

Podiceps caspicus courtship and display, **McAllister** ; *P. cristatus* German note, **Groebbels** (**1**) ; habits, **Hachler.**

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Calonectris leucomelas in Hawaii, **Oka.**

Procellaria baroli in Cheshire, **Bennett, Boyd & Cusa** ; Photos, **Warham** (**6**) ; *P. puffinus* capture-recapture estimate of population, **Orians.**

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